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Liang et al.

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(54) **ENERGY-SAVING DEVICE OF SURGICAL LIGHT**

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See application file for complete search history.

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(57) **ABSTRACT**

A energy-saving device of surgical light includes a suspension or support system; a light head carried on the suspension or support system and includes a housing, a grip mounted to the housing for hand holding and moving the light head, multiple light clusters mounted in the housing and each including at least one light source, and multiple detection pairs mounted in the housing and each including an emitter and a receiver, in which the emitter transmits a signal that is reflected by an external object to the receiver to detect the external object at a specific site and a specific distance from the light head; a light source driver operable to drive the light clusters according to the detection result of the detection pairs; and an operation interface connected to the light source driver and configured for energy saving modes of fixed light intensity and compensation light intensity.

(52) **U.S. Cl.**

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(58) **Field of Classification Search**

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4 Claims, 4 Drawing Sheets

